

Environmental Protection Agency 2200 Churchill Road, Springfield, Illinois 62706

- ORIGINAL -

		, -110		
		·		Waste - Check if Applicable
J	A P P L I C A T I O N		_	<u>x</u> Storage Transfer
Τ (D DEVELOPAS MANÁGEMEN	_) E	Processing Recovery Incineration
			_	Other ·
	In Accordance With	The Environment	al Protection A	Act
public exc confidenti	nation submitted as pacept when specifically ially as regarding a terminal with Section 7(a) of	designated by trade secret or	the Applicant t secret process	o be treated in DEOLIVE
•	APPLICATION MU	ST BE SUBMITTED	IN DUPLICATE	NOV 21 1980
	PART I - APPL	I C A N T I	NFORMATI	ON STATE OF ILLINOIS
************	dentification Rich when of Applicant Lem	nard L. Cline, Sont Mfg. Co. Di (Person respon	ecretary v. of The Ceco sible for opera	
2. Ad	idress of Applicant	Box 280 (Street, P	.0, Box, or R.	R. #)
	Lemo City		linois ate	60439 Zip Code
	<u>Telepho</u>	ne: 312 25 (Area Code)	7-7701 (Number)	: : :
3. N	ame of Land Owner	Same (If sam	e as above, so	indicate)
4. A	ddress of Land Owner_		, P.O. Box, or	R. R. #)
	City		State Notification	Zip Code
STPR 5/15/ LPC-7 Rev.			Per I. E. P. A. A	

NOV 2 6 1980

DL/NPC

EPA Region 5 Records Ctr.



Address of Site New Avenue (Street, P.O. Box, or R. R. #)	
(
Lemont Illinois 60439 City State Zip Code	
Will County Will Township	
Land ownership (Check Applicable Boxes)	
) To Be Purchased by Applicant () Years of Lease Remaining: Termination date of lease	^\$
TE BACKGROUND (Check Applicable Box or Boxes)	
 (X) This is an existing operation begun June (mo.) 1972 (yr.) (application) () this is a proposed operation. () This is a proposed extension of an existing adjacent operation: Illinois E.P.A. Permit No.	ppr
PART II - LOCATION INFORMATION	
NING AND LOCAL REQUIREMENTS	
. Does present zoning of site allow the *p**roprosed* usage? (x) Yes () No.	
. Restrictions (if any) None - Presently	
(X (Dp SI) 3.	City State Zip Code Will County Will Township 7. Land ownership (Check Applicable Boxes) (X) Presently Owned by Applicant () To be Leased by Applicant For Year () To Be Purchased by Applicant () Years of Lease Remaining: Termination date of lease Operated by: Ill. Corporation () Partnership () Government () Individual () Other () SITE BACKGROUND (Check Applicable Box or Boxes) 3. (X) This is an existing operation begun June (mo.) 1972 (yr.) (and () this is a proposed operation. () This is a proposed extension of an existing adjacent operation:

	12.	Chec	k applicable boxes which describe the use of adjacent erties surrounding site.
		a. Non b. Eas c. Son d. Wes	st (X) () () (X) (Mining uth () (X)
		*SPEC	IFY USE CLASSIFICATION
	13.	a.	Are there any permits, operational requirements, licenses, or other requirements or restrictions by any municipality, planning commission, county, county health department, state agency, or other governing body? (X) Yes () No If yes, List below. "Landfill" Permit by
			Will County
		·	
		b.	Have these requirements, licenses or restrictions been approved by the agency or governing body having jurisdiction? (x) Yes () No
		с.	If the answer to (b) is yes, include photocopies of supporting documents. Enclosure - Landfill Permit (Attachment #1)
В.	LOCA	TION	
	14.	topog	ch a copy of the United States Geologic Survey (U.S.G.S.) graphic quadrangle map of the area which contains the site. minute quadrangle, if published).
	:	Quadr	Romeoville, Illinois 1962 1973 (Photo Revised) Name Date
	15.	a.	Outline on the U.S.G.S. topographic quadrangle map the location and extent of the site. See Map (Attachment #2)
		b.	Provide a legal description of the site. (Typewritten on attached sheet.)
			6 acre ox. 9 Acres in NE Quarter, Quarter, Quarter, of Section 25 , Township 37N , Range 10E , East of 3rd P.M.

16.	General characteristic: (Flood Plain, Hillside, Mine, Quarry, Gully, Gravel Pit, Swamp, etc.) Briefly describe: Ouarry	Field,	Strip	
				•

- 17. Plot the following information on the U.S.G.S. quadrangle topographic map, if within the site or adjacent to the outer perimeter of facility:
 - a. Wells (domestic, industrial, etc.) 3 homes & on-site well
 - b. Public water sources (wells, stream, etc.) I&M Canal
 - c. Residences or residential areas, commercial facilities, sewage treatment facilities, industries, institutions, etc.
 - d. Other treatment facilities not shown on topographic map such as diverted steams, strip mines, ponds, etc.

If scale of quadrangle map is not sufficient, show the above items on a separate topographic map (See Part IV - A - 23).

PART III - SITE CHARACTERISTICS

To Be Completed If Land Disposal Of Waste On Site Is Requested

NOT REQUIRED -STORAGE ONLY

A. GEOLOGY - HYDROLOGY

NOTE:

The instructions for this Part of the Application should be read carefully prior to initiating the data-gathering program for the site.

Provide subsurface information in comprehensive detail, sufficient to allow thorough evaluation of the hydrologic and geologic conditions beneath and surrounding the site. This data must fully describe the hydrogeologic interrelationships of the landfill facility, local ground waters, and surface waters. All information requested in sections 18 through 22 should be integrated and presented as a detailed hydrogeologic report.

B. GEOLOGY

GENERAL GEOLOGIC SETTING

- 18. Provide a brief description of the general geography of the region in which the site is located, and a summary of the hydrogeologic conditions typical of that portion of Illinois.
 - 1. Sand bluffs to the SE of New Ave. (Area B)
 - 2. Shale (dolomite) quarried area underlies scrap yard & dust pit.

TYPE AND EXTENT OF SUBSURFACE MATERIALS

- 19. Provide a complete log (description) of each boring made during the exploratory program, and include all other pertinent data so obtained. Shale to at least -50' (i.e. elev. approx. 536) - Attachment #3 -
- 20. Include the following information regarding the bedrock, if #3 encountered during the boring program:
 - a. Depth(s) to bedrock. approx 0'
 - b. Lithology (physical character) and hydrologic characteristics of the bedrock formation. Limestone typical
 - c. Name and age of the formations encountered during the boring operation and (or) which crop out on or adjacent to the site. Limestone underlies entire area

C. MATERIALS CLASSIFICATION AND ANALYSIS

- 21. Provide the following information for samples taken during the boring operation: Typical of Limestone
 - a. textural classification (U.S.D.A. system)
 - b. particle size distribution curves for representative samples
 - c. coefficient of permeability based on field and (or) laboratory determinations
 - d. ion-exchange capacity and ability to absorb and "fix" heavy metal ions

D. HYDROLOGY

- 22. Provide the following information regarding the hydrologic flow system in the area of the site:
 - a. Depth to water in boreholes at time of boring completion and periodic measurements until the water level has stabilized. Water elevation is at approx. -0' (i.e. elev. approx. 586)
 - b. Rate(s) and direction(s) of ground-water movement. Rate is unknown, but
 - c. A narrative description (with diagrams) of the design and direction is installation procedures for all piezometers installed at the site. This shall include both water-level measuring piezometers and those installed for permanent use as water-quality monitoring points. See drawing of test wells. Attachment #3
 - d. An analysis of the background ground-water quality, as per those constituents listed in the Instructions. Attach a copy of the laboratory report. See Table III Groundwater Analysis -
 - e. An outline of the procedures, devices, and personnel to be Attachment #5 employed for the collection of periodic ground-water samples from the monitoring point(s) installed at the site.

Samples were taken on 4/21-23/80 and will be taken again in 1981 during the same period.

PART IV - CONSTRUCTION PLANS

AND SPECIFICATIONS

A. SITE DEVELOPMENT PLAN

- 23. Provide a detailed topographic map of the existing site (Scale 1" = 200' or larger) showing 5-foot contour intervals on sites (or portions thereof) where the relief exceeds 20 feet, and 2-foot contour intervals on sites (or portions thereof) having less than 20 feet of relief. This map should show all buildings, ponds, streams, wooded areas, bedrock outcrops, underground and overhead utilities, roads, fences, culverts, drainage ditches, drain tiles, easements, streets, any other item of significance, including legal boundaries. Detailed survey not available at this time drawing of available information attached. (Attachment Show the location and elevation of borings as described in Part #2) III 19, 20. See Table IV, V and Exhibit 2 (Attachment #6)
- 24. Provide a separate map, at the same scale as that above, of the developed site showing the following:
 - a. All changes in topography dictated by design and operational factors. Area is essentially filled to approx. +595 with
 - b. All surface features (as specified in IV A 23) both unaltered and modified, and installed as part of the facility. This shall include all new construction with location plans for berms, dikes, dams, earth barriers, surface drainage ditches, drainage devices, (culverts, tiles), fencing, access roads, entrance(s), utilities, buildings, sanitary facilities, monitoring well(s), streams, ponds, mines, and any other special construction as may be required to comply with the provisions of the Rules and Regulations. Detailed survey not available as yet. Dust pits are

c. Earth barriers, berms, dikes and other barriers, including bermed to essential dimensions of each. Open drainage ditch

crosses property (emptying into I&M canal & it is bermed on either side).

- 25. Provide a topographic map of the closed and covered site showing final contours, with an interval of 5 feet if relief is greater than 20 feet, and intervals of 2 feet if relief is less than 20 feet. Topo not available at this time.
- 26. Provide plan views (Scale 1" = 200') and cross sections of the leachate collection and treatment system, if utilized, including the following information: Not utilized.
 - a. Type, location and construction of subsurface collection system, and all attendant devices.

b. Location, dimensions, volume, and surface elevation of treatment lagoon(s), if used.

c. Detailed written narrative of the method and processes of the treatment system, and program for monitoring the performance and effectiveness of the treatment system.

d. Discharge point(s) of effleunt.

B. SCHEDULE OF CONSTRUCTION

- 27. Attach a typewritten narrative supplemented by indications on the plans of the sequence of areas to be developed. Estimate the date of beginning and ending of each phase of construction and operation. The existing west pit is filled and has an approx. 6' berm above its fill level. The east pit is being filled until Nov. 19th. Both will
 C. CONSTRUCTION REQUIREMENTS be dug out and material hauled to a secure landfill.
 - 28. Attach a typewritten narrative supplemented by indications on the plans of provisions to be made for:
 - a. Prevention of surface-water pollution. Pit areas are bermed.
 - b. Control of gas migration. Not applicable the waste is inorganic.
 - c. Elimination of flood hazard, if any. Not applicable
 - d. Employee facilities. Normal
 - f. Measuring quantity of waste delivered to the site.
 None after Nov. 19, 1980. Previously approx. 15-20 yd /week.

PART V - OPERATING PLAN

A. SOURCE AND VOLUME

29. Indicate the estimated quantity of each of the following sources and types of waste the facility will handle during each day of operations; each week of opertion; each year of operation. Specify any additional information regarding refuse source and quantity. No input after Nov. 19, 1980.

<u>so</u>	DURCE	TYPE	DAILY QUAN.	WEEKLY QUAN.	ANNUAL QUAN.
a. Res	sidential				
b. Com	mercial				
c. Ind	lustrial				
d. Agr	icultural				
e. Oth (Des	er cribe)				

B. OPERATING REQUIREMENTS

- 30. Attach a typewritten description of provisions for:
 - a. Personnel for supervision and operation
 - b. Traffic control

Operation after Nov. 19th will consist of removing material from first the west and then the east pit. Trucks will be loaded by owner's agents and hauled to a secure landfill.

- c. Designation of unloading area
- d. Dust control
- e. Odor controlf. Management of surface water
- g. Erosion control
- h. Monitoring program for gas
- i. Reuse and recycling operations
- 31. Provide a list of equipment to be used for the operation:

	· · · · · · · · · · · · · · · · · · ·	NO. OF UNITS	
ITEMS	MODEL NUMBER	IN OPERATION	DESCRIPTION

Heavy dozers and/or drag bucket filling trucks.

PART VI - NOTICE/LAND USE

- 32. In order that notice of intent be sent to those affected by this application, you shall provide these names and addresses to the Agency:
- Will County -
- State's Attorney of the county in which the site is located. S.A. Edward Petka a)
- Chairman of the County Board of the county in which the site is b) located. Will County - Ted Grabavoy
- Each member of the General Assembly from the Legislative c) district in which the site is located. (Three Representatives, One Senator) George Songmeister, Harry Leinweber, Jack Davis and Leroy Van Duyne

- d) The clerk of each municipality, any portion of which is within three miles of the site. Romeoville (Will County) Richard Kanak & Lemont (Cook
- e) Adjacent landowners to the proposed site. Unknown County) Perle Mentch
- f) Local zoning and planning agencies. Will County P&Z and Cook County P&Z

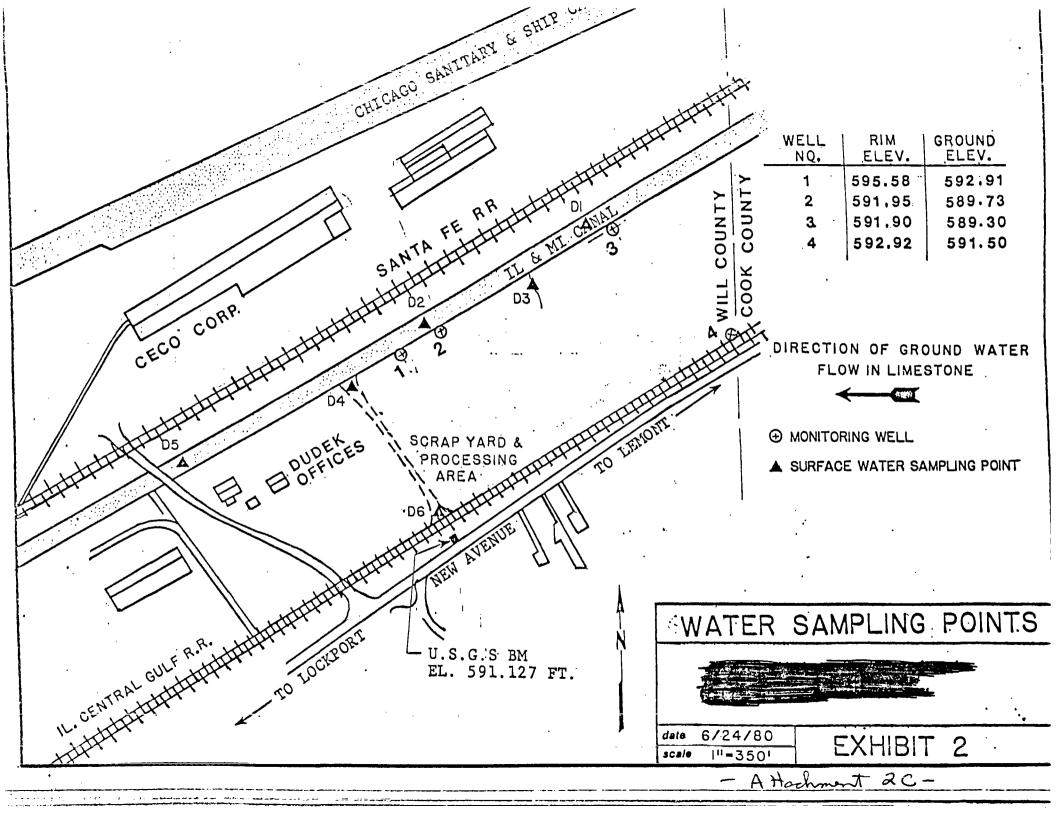
33. Provide the following documentary evidence sufficient to show:

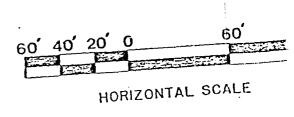
- a) That the facility is located so as to minimize scenic blight, and to avoid damage to archaeological and/or historic sites and areas of significant natural beauty; Site is in industrial (heavy) area and and bermed from New Ave. No archaeological or historic sites are known to exist
- b) That the facility is located so as to avoid any hazards to other than the public health and safety and to minimize any offenses to the senses of persons residing, working, traveling, and/or in any way spending periods of time in the immediate vicinity. Immediate vicinity is here defined to mean a one-mile radius zone adjacent to the boundary of the site; The site is fenced and gated and bermed.
- c) Taking into consideration the character of the area involved, including the character of surrounding land uses and the trend of development, as well as local comprehensive plans and zoning ordinances, that the facility is located so as to minimize incompatibility with the character of the surrounding area. Facility is in a heavy industrial area.
- d) That the facility is located so as to avoid causing substantial depreciation of nearby property (taking into consideration, where possible, any mitigation caused by the short proposed life of the site and end use); Site is a scrap steel yard in a heavily industrialized area.
- e) That any detriments caused by removal of the site from its former use are out-weighed by the need in the area for such a facility at this location; Former use was as a quarry. Present use is a scrap reclaim yard and scrap storage yard for Ceco Steel.
- f) That the facility is located so as to avoid a continued adverse effect on existing air and water quality; and Monitoring water wells do not show any groundwater pollution despite approx. 8 years of operations.
- g) Taking into consideration geological and hydrological factors, the location of the site in relating to sources of solid waste and accessibility to transportation modes, and the technical feasibility and economic reasonableness of disposing of solid waste at the proposed location, that the facility is suited for its intended use. The site is a reclaim and storage yard for steel scrap.
- h) That access roads and bridges are not limited to preclude necessary vehicular traffic (i.e. proposed size and weight limits). Access road off New Ave. is for industrial use only.

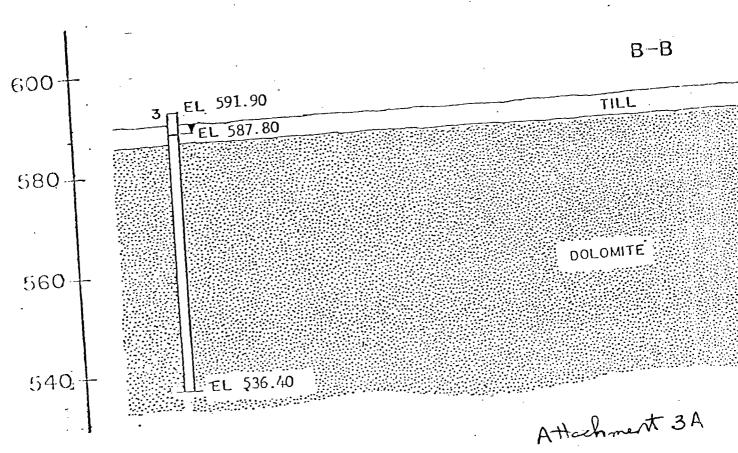
true and accurate to the best of my knowledge and	in this Application is pelief.
Signature of Applicant: Rie Am	11/19/80
IL N	Pate,
Attest: #E Jessen	
Signature of Engineer: James F. Kahle	11/19/80
Illinois Reg. No: 62-32947	
Witness: Nrey J. Wu	11/19/80
Sinter Pero Apro	· vale
Signature of Landowner(s):	
Attest: At Jussen	11/19/80
	⁄Date'
	Engineer (Seal)
Signature of other person, technical and non-tesupplied data contained in the submittal.	chnical, who has
Signature	Date
· · · · · · · · · · · · · · · · · · ·	
Reg. No., Position, Title, Etc.	
	Engineer (Seal)
Signature	Date
Reg. No., Position, Title, Etc.	
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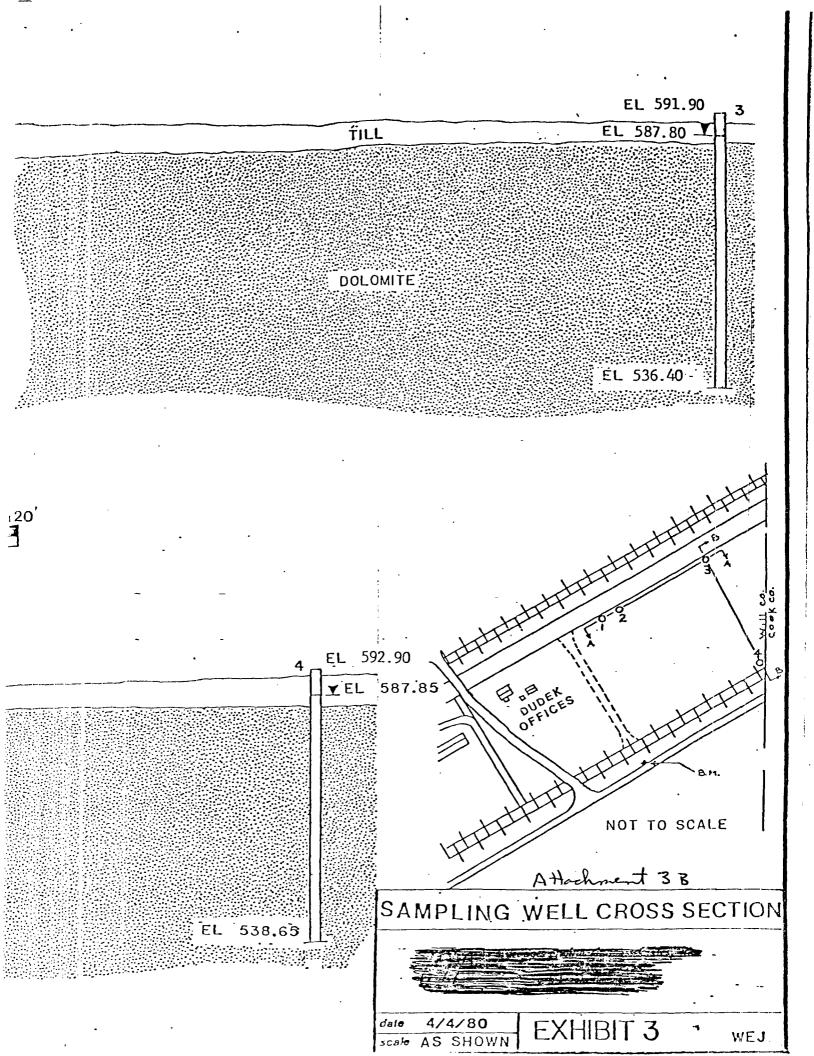
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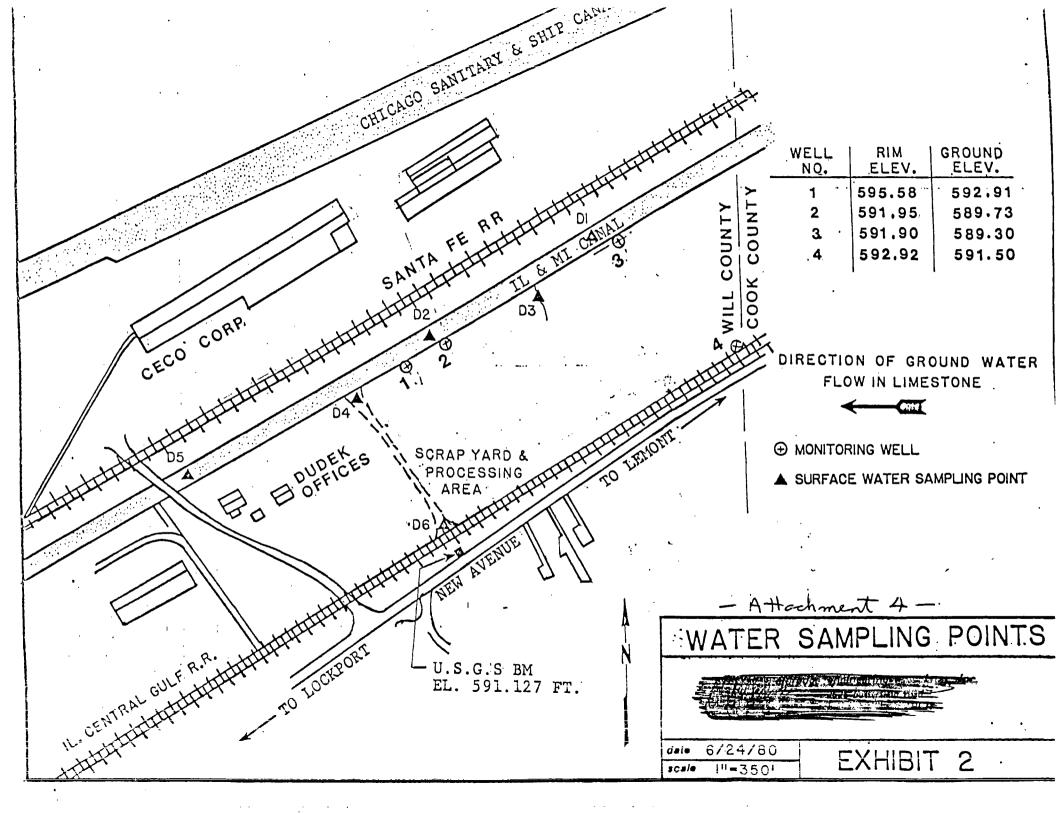












- A Hachment 4B-

TABLE V - WELL WATER ELEVATIONS

		Initi	al Water	Levels		ter Leve r After	ls Purging
	Day:	1	_2_	_3_	_1_	_2_	_3_
Well #							
1		581.88	581.78	581.78	576.18	576.18	572.18
2		585.05	584.65	584.85	584.85	585.15	584.75
3		587.20	586.9 0	587.00	58 7.50	587.50	587.40
4		587.12	588.02	588.12	587.72	587.82	587.92

Note: Test Period 4/21/80 - 4/23/80

USGS Elevations in feet

- A'Hackment 5A-

TABLE II - BACKGROUND WATER ANALYSIS

	<u>W-1</u>	<u>w-2</u>	<u>w-3</u>	<u>W-4</u>
Total Solids	1086	1004	1117	_
Diss: Solids	932	774	1116	612
COD	40	12	840	434
Phenols ug/l	5.50	0.55	4	24
Oil & Grease	13	5	≺ 0.55	0.55
pH @ 25°C	8.	7. 8	7	2
Spec. Cond.	1295	1060	7.9	7.6
Alkalinity	340	376	1177	589
Total Hardness	608•	568	384	216
Bromide	0.50		560	332
Chloride	. 95	0.45	0.20	0.40
Flouride	0.43	24	44	17
Cyanide Total	0.045	0.32	0.35	0.37
Carbonate	0.00	0.059	0.042	0.012
Bicarbonate '	340	0.00	0.00	0.00
Selenium		376	384	216
Nitrate	≺ 0.002	≺0.002	≺ 0.002	< 0.002
Phosphate	0.010	0.025	0.020	0.005
Sulfate	2.23	1.84	2.67	1.49
Aluminum	215	183	227	75
Antiomny	≺1.0	≺1.0	≺ 1.0	≺1.0
Arsenic .	≺1.0	≺ 1.0	<1.0	<1.0
Barium	0.062	0.025	0.053	0.026
Boron	≺ 0.1	<0.1	≺ 0.10	≺0.1
Cadmium	0.35	0.35	0.30	0.30
Calcium	≺ 0.10	≺ 0.10	≺ 0.10	<0.10
Chrom-Total	158	130	130	86.0
Chrom-Hex	≺ 0.1	≺0.1	≺0. 1	≺0.1
Copper	≺ 0.1	≺0.1	≺ 0.1	<0.1
Iron	≺0. 1	≺0.1	≺0.1	<0.1
Lead	≺ 0.1	≺ 0.1	≺ 0.1	<0.1
	≺0.1	≺ 0.1	≺0.1	≺ 0.1
Magnesium	62.0	60.0	59.0	26.0
Manganese	≺0. 1	≺ 0.10	≺0.1	≺ 0.1
Mercury ug/l	0.163	≺ 0.1	0.163	0.163
Nickel	≺ 0.1	≺0.1	≺0.1	≺0.1
Silver	≺ 0.1	≺ 0.1	₹0.1.	₹0.1
Sodium	42	17.0	51.0	5.0
Zinc	≺0.1	≺0.1	₹0.1	4 <0.1

Dudek Wells No. 1-4 sampled 2/22/80. Laboratory Report 3/4/80.

- Attachment 5B-

TABLE III - GROUNDWATER ANALYSIS

Sample		_												_		
Parameter		*)1 *			10	02 *	*		10 *)3· *		*.	1 *	04 	
TDS	1200	944	952	1100	860	812	780	760	740	704	776	820	640	620	712	928
COD	39	93	74	67	43	67	41	41	4	. 52	67	56	31	31	190	74
Phenols	2.5	108	12	3	33	15	12	8	61	27	18	88	39	23	18	8
Oils	12	9	6	9	1	10	32	12	13	7	8	9	9	8	2	30
Chloride	112	90	91	96	129	76	34	35	26	23	24	25	2:9	26	24	18
Sulfate	227	254	254	243	215	194	207	207	255	226	226	235	187	187	180	207
Arsenic	D.T.	D.T.	D.T.	D.T.	D.T.	D.T.	D.T.	D.T.	D.T.	D.T.	D.T.	D.T.	D.T.	D.T.	D.T.	D.T.

^{*} Split Sample

D.T.: Below Detection Limits

Surface water samples Nos. 101-104 collected 4/21 - 4/23/80.

	Initial water leve		
	Water level one ho	pur	
Date: 21 22 23	21 22 23 21 21	2 23 21 21	22 23
			3)
585			
580			
THE REPORT OF THE PROPERTY OF			
575			
570			
	2	3	
		TEVELS	Aprill 21-23 11090
			Treling # 6 A

